

Response to Amendment

This office action is in response to the amendment filed on April 23, 2008.

Claims 1, 4-7, 10-13, 16-18 are pending for examination. Claims 1, 5, 7, 10-13 and 17 have been amended.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative Mr. John Sensny on July 15, 2008.

AMENDMENTS TO CLAIMS

To the amendment filed on 04/23/2008, please amend the following claims:

1. (Current Amended) A method for mapping data from a data source to a data destination, comprising the steps:

providing a plurality of separate components, operating in series between the data source and the data destination, for performing defined functions to map the data from the source to the destination, including the steps of:

- i) [using]] a first of the components [[for]] reading data from the data source,
- ii) [[using]] a second of the components [[for]] receiving the data from the first of the components and [[for]] processing the read data according to a set of rules, said second component including a formatter [[for]] converting selected dates from a first format to a second format, thereby eliminating the need for writing code for formatting the selected dates, and
- iii) [[using]] a third of the components [[for]] receiving the data from the second of the components and [[for]] loading the processed data into the data destination;

a system administrator updating the components during use of the components;
wherein the first of the components operates in series between the data source and the second of the components, and the third of the components operates in series between the second of the components and the data destination;

wherein each of the components operates independently of the other of the components and each of the components can be modified, adjusted and replaced independently of the others of the components to facilitate mapping data from a plurality of different data sources, having data in different formats, into the data destination; and

wherein the plurality of components perform the further functions of (iv) verifying the integrity of the read data, and (v) logging results into a file, and a respective one of the components performs each of the functions (i) – (v);

wherein the data destination is a database, and said step of providing a plurality of separate components includes the further step of ~~[[using]]~~ said plurality of components:

~~[[for]]~~ mapping fixed length fields in the data source to a Java object type in a pofield in the database;

~~[[for]]~~ determining the start position, the length, what database column the fields map to, which database tables the fields map to, whether the fields can be updated or not, what kinds of formatting to be applied on the fields by referring to Hash Table Objects which contain the mapping of pofield objects in a DBA action class that is used to manage database activity;

~~[[for]]~~ calling a formatter to reformat data from the data source; and

~~[[for]]~~ managing transactions by starting a transaction when a first record is read, and committing the transaction when a defined record, as defined in a record parameter, is encountered; and

~~wherein said method comprises the further step of a system administrator updating the components during the use of the components;~~

~~wherein the first component operates in series between the data source and the second component;~~

~~the third component operates in series between the second component and the data destination; and~~

wherein the second component verifies the integrity of the read data by checking for counts and data consistencies; and

wherein ~~the framework includes~~ said plurality of components include a first file for reading currencies, a second file for formatting data fields, and a third ~~file~~ file to define an event handler.

2. (Cancelled).

3. (Cancelled).

4. (Currently Amended) A method according to Claim 1, wherein the data source is a flat file, ~~and the data destination is a database.~~

5. ((Previously Presented) A method according to Claim 1, wherein the plurality of components perform the further step of sending the results, by electronic mail, to a configured list of email addresses.

6. (Original) A method according to Claim 1, wherein the step of processing the read data includes the step of formatting the read data for placement in the data destination.

7. (Currently Amended) A computer system for mapping data from a data source to a data destination, comprising:

a computer server; ~~and wherein~~

a plurality of separate components ~~operate~~ running on the server, said components operating in series between the data source and the data destination, for performing defined functions to map the data from the source to the destination, said plurality of components including (i) a first component ~~[[for]]~~ reading data from the data source, (ii) a second component ~~[[for]]~~ receiving the data from the first component and ~~[[for]]~~ processing the read data according to a set of rules, said second component including a formatter ~~[[for]]~~ converting selected dates from a first format to a second format, thereby eliminating the need for writing code for formatting the selected dates, and (iii) a third component ~~[[for]]~~ receiving the data from the first component and for loading the processed data into the data destination;

wherein the first of the components operates in series between the data source and the second of the components, and the third of the components operates in series between the second of the components and the data destination;

wherein each of the components operates independently of the other of the components and each of the components can be modified, adjusted and replaced independently of the others of the components to facilitate mapping data from a plurality of different data sources, having data in different formats, into the data destination;

wherein the plurality of components perform the further functions of (iv) verifying the integrity of the read data, and (v) logging results into a file, and a respective one of the components performs each of the functions (i) –(v);

wherein the data destination is a database, and said plurality of separate components perform the further functions of:

mapping fixed length fields in the data source to a Java object type in a pofield in the database;

determining the start position, the length, what database column the fields map to, which database tables the fields map to, whether the fields can be updated or not, what kinds of formatting to be applied on the fields by referring to Hash Table objects which contain the mapping of pofield objects in a DBA action class that is used to manage database activity;

calling a formatter to reformat data from the data source; and

managing transactions by starting a transaction when a first record is read, and committing the transaction when a defined record, as defined in a record parameter, is encountered;

~~wherein the first component operates in series between the data source and the second component;~~

~~the third component operates in series between the second component and the data destination; and~~

~~wherein the second component verifies the integrity of the read data by checking for counts and data consistencies; and~~

wherein ~~the framework includes~~ said plurality of components include a first file for reading currencies, a second file for formatting data fields, and a third ~~file~~ file to define an event handler.

8. (Cancelled).

9. (Cancelled).

10. (Currently Amended) A computer system according to Claim 7, wherein the data source is a flat file, ~~and the data destination is a database.~~

11. (Previously Presented) A computer system according to Claim 7, wherein the plurality of components perform the further function of sending the results, by electronic mail, to a configured list of email addresses.

12. (Previously Presented) A computer system according to Claim 7, wherein the function of processing the read data includes the function of formatting the read data for placement in the data destination.

13. (Currently Amended) A program storage device readable by a computer, tangibly embodying a program of instructions executable by the computer to perform

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method steps for mapping data from a data source to a data destination, said method steps comprising:

establishing a plurality of separate components, operating in series between the data source and the data destination, for performing defined functions to map the data from the source to the destination, including the steps of:

- i) [[using]] a first of the components [[for]] reading data from the data source,
- ii) [[using]] a second of the components [[for]] receiving the data from the first of the components and [[for]] processing the read data according to a set of rules, said second component including a formatter [[for]] converting selected dates from a first format to a second format, thereby eliminating the need for writing code for formatting the selected dates, and
- iii) loading the processed data into the destination;

wherein the first of the components operates in series between the data source and the second of the components, and the third of the components operates in series between the second of the components and the data destination;

enabling a system administrator to update the components during use of the components;

wherein each of the components operates independently of the other of the components and each of the components can be modified, adjusted and replaced independently of the others of the components to facilitate mapping data from a plurality of different data sources, having data in different formats, into the data destination;

wherein the plurality of components perform the further functions of (iv) verifying the integrity of the read data, and (v) logging results into a file, and a respective one of the components performs each of the functions (i) – (v);

wherein the data destination is a database, and said step of providing a plurality of separate components includes the further step of ~~[[using]]~~ said plurality of components:

~~[[for]]~~ mapping fixed length fields in the data source to a Java object type in a pofield in the database;

~~[[for]]~~ determining the start position, the length, what database column the fields map to, which database tables the fields map to, whether the fields can be updated or not, what kinds of formatting to be applied on the fields by referring to Hash Table objects which contain the mapping of pofield objects in a DBA action class that is used to manage database activity;

~~[[for]]~~ calling a formatter to reformat data from the data source; and

~~[[for]]~~ managing transactions by starting a transaction when a first record is read, and committing the transaction when a defined record, as defined in a record parameter, is encountered; and

~~wherein said method comprises the further step of a system administrator updating the components during the use of the components;~~

~~wherein the first component operates in series between the data source and the second component;~~

~~the third component operates in series between the second component and the data destination; and~~

wherein the second component verifies the integrity of the read data by checking for counts and data consistencies; and

wherein ~~the framework includes~~ said plurality of components include a first file for reading currencies, a second file for formatting data fields, and a third ~~file~~ file to define an event handler.

14. (Cancelled).

15. (Cancelled).

16. (Currently Amended) A program storage device according to Claim 13, wherein the data source is a flat file, ~~and the data destination is a database.~~

17. (Previously Presented) A program storage device according to Claim 13, wherein the plurality of components perform the further step of sending the results, by electronic mail, to a configured list of email addresses.

18. (Original) A program storage device according to Claim 13, wherein the step of processing the read data includes the step of formatting the read data for placement in the data destination.

19. (Cancelled).

20. (Cancelled).

Allowable Subject Matter

Claims 1, 4-7, 10-13 and 16-18 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1, 7 and 13 are allowable because the prior art on record or that encountered in searching for the invention, fails to disclose or suggest the features of instant invention – Referring to hash table objects which contain the mapping of post field (pofield) Java objects in a DataBase Administration (DBA) action class to allow users independently update a plurality of system components during the use of the plurality of components to facilitate the data mapping from a plurality of different data sources, having data in different formats into a destination database, in a combination with all the limitations as claimed by applicant.

As to claims 4-6, 10-12 and 16-18, these claims depend on claims 1, 7 and 13, hence, are allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Y. Chen whose telephone number is 571-272-4016. The examiner can normally be reached on Monday - Friday from 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mofiz Apu can be reached on 571-272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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